

CWSF 2013 - Lethbridge, Alberta



Briana Ross

Feel The Burn - The Truth

Challenge: Health

Category: Intermediate

Region: Halifax

City: Halibut Bay, NS

School: J.L. Ilsley High School

Abstract: My project is about whether or not there are heat shocked proteins in yeast that had been heat shocked and whether this can help an older burn. I used Western Blotting to show that heat shocked proteins were found in heat shocked yeast. I also found that the heat shocked yeast reduced the effect of acid on salmon flesh one hour after the burn.

Biography

My name is Briana Ross and I am a grade 10 student at JL Ilsley High School in Halifax, Nova Scotia. I am involved in many musical extra curricular activities and I am always looking for ways to share my voice and ideas to the world. I find that singing and science fairs have helped me do this. When you sing, you show a very vulnerable side of yourself and when you participate in science fairs you get to educate people about whatever idea you have come up with. Over the past three years I have been participating in science fairs at the school level and regional level. I have been working on the same idea for these three years, finding a treatment for acid burns. My first idea was to help divers affected by hydrogen sulfide in Blue Holes in the Bahamas. But that was too dangerous so I thought to help people with acid burns. I had found that proteins worked well at stopping acid burns. I learned about heat shock proteins and wanted to see if they could help protect/repair acid burns. In the future, I want to try bandages with heat shock proteins to help burns.

Youth Science Canada
PO Box 297
Pickering ON L1V 2R4
www.youthscience.ca / info@youthscience.ca
416-341-0040